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**Patentanmeldung Nr.    Patent application No.    Demande de brevet n°**

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If no title is shown please refer to the description.  
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System for sharing human perceptual signals

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# **System for sharing human perceptual signals**

The invention relates to a system for sharing human perceptual signals.

The invention further relates to electronic devices for use in a system for sharing human perceptual signals.

5 The invention further relates to methods of enabling a system for sharing human perceptual signals.

The invention further relates to a computer program product for use in a system for sharing human perceptual signals.

10 It is known from peer-to-peer software such as Kazaa, Napster, Morpheus, and Gnutella to share selected digital content. A user of a first electronic device is able to retrieve a digital content item from a second electronic device and reproduce it on his or her first electronic device. It is known from portable audio devices, e.g. a Walkman, to reproduce analog and/or digital audio.

15 Most users want to access new content, but are unable to find new content without knowing a title or an artist of the content. Sometimes, content category information is available, but content categories of the known peer-to-peer software are not specific enough. Searching for a content category confronts a user with a large amount of new content items of which only few are of interest to the user. On the other hand, users often see other users  
20 listening to portable audio devices with a headphone and wonder what the other users are listening to, especially if the limited sound that escapes the head phone appeals to the users. There is a need for a system where the other users make their content available and the users are able to access new interesting content very easily.

25 It is a first object of the invention to provide a consumer electronic device for making content available, which enables finding interesting new content if a title or an artist of the content is not known.

It is a second object of the invention to provide an electronic device for accessing new content, which enables finding interesting new content if a title or an artist of the content is not known.

5           The first object is according to the invention realized in that the consumer electronic device for making content available comprises: an output means able to generate a human perceptual signal; a transmitter able to transmit a human non-perceptual signal; a control unit able to control the output means able to create a representation of the human perceptual signal, and able to instruct the transmitter to broadcast a human non-perceptual  
10   signal comprising the representation. A user of the consumer electronic device is able to share the audio and/or video content he or she is currently listening to and/or watching with other users. Since content will most likely be broadcasted only to other users in the vicinity of the user, the other users will not be confronted with a large amount of new content items. If other users notice the user listening to and/or watching interesting content, they may be  
15   able to instruct their consumer electronic device to listen to and/or watch the content themselves. Other users may be able to go to a location where a user may be found that shares their interest in a certain type of lifestyle and/or content. Creating a representation of the human perceptual signal may comprise compressing the content with a possible loss of quality. Creating a representation of the human perceptual signal may also comprise  
20   extracting a fragment from the content. Broadcasting a human non-perceptual signal may involve using Bluetooth, ZigBee, or ad-hoc wireless LAN (e.g. 802.11) technology.

In an embodiment of the consumer electronic device, the output means comprises at least one of a speaker and a headphone.

25           The output means may comprise a display.

The control unit may be able to instruct the transmitter to transmit a human non-perceptual signal comprising an identifier identifying the human perceptual signal. The identifier may comprise a title and/or an artist (e.g. singer or director) of the content. The identifier may be unique enabling a receiver of the content to retrieve extra information  
30   regarding the content.

The consumer electronic device may further comprise a receiver able to receive a further human non-perceptual signal, the control unit may be able to use the receiver to detect a free time-slot in a transmission medium, and the control unit may be able

to instruct the transmitter to transmit the human non-perceptual signal in the free time-slot. By detecting a free time-slot, it is not necessary to have a central entity assigning time-slots.

The control unit may be able to use the receiver to receive a control signal and the control unit may be able to schedule own transmissions in accordance with the control  
5 signal. By having a controlled schedule of transmissions, collisions of transmitted packets and/or overhead needed to prevent collisions can be prevented.

The control unit may be able to use the receiver to detect a level of occupation of a transmission medium and the control unit may be able to instruct the transmitter to adapt its transmission power in dependency of the level of occupation. If a large number of  
10 transmitting devices are already active in a relatively small area, it might be impossible for other devices to start broadcasting in this area. Decreasing the transmission power of one device might then limit the interference between devices and allow another device to start broadcasting.

The control unit may be able to instruct the transmitter to transmit a human  
15 non-perceptual signal comprising transmission power of the transmitter. By setting the transmission power of a first device below the transmission power of a second device from which a weak signal is received, a third device closer to the second device might be able to start broadcasting without interference from the first device.

20 The second object is according to the invention realized in that the electronic device for accessing new content comprises: an output means for generating a human perceptual signal; a receiver able to receive a human non-perceptual signal; and a control unit able to use the receiver to receive multiple human non-perceptual signals comprising representations of multiple further human perceptual signals and able to instruct the output  
25 means to generate the human perceptual signal from the representations. By instructing the output means to generate the human perceptual signal from representations of multiple further human perceptual signals, a user of the device is able to listen to and/or watch multiple content items simultaneously.

In an embodiment of the apparatus of the invention, the electronic device  
30 further comprises an input means for enabling a user to select at least one of the representations and the control unit is able to instruct the output means to generate the human perceptual signal from the at least one of the representations. When the user hears or sees an interesting content item, he or she is able to focus on the content item by selecting one of the at least one representations.

The electronic device may further comprise a communication means for establishing communication between users and the control unit may be able to use the communication means to establish communication between a user of the electronic device and a user of a similar electronic device having transmitted a human non-perceptual signal comprising the at least one representation. When the user has focussed on the content item, he may be able to communicate with the user from whom the content item originates.

The control unit may be able to instruct the output means to make a further human perceptual signal more noticeable in the human perceptual signal if it is generated on a nearby further electronic device and less noticeable if it is generated on a remote further electronic device. When the user hears an interesting content item, he may be able to focus on the content item by walking towards the electronic device transmitting the content item. The volume of an acoustic signal may be higher if it is generated on a nearby further electronic device and lower if it is generated on a remote further electronic device. Visual signals may be shown simultaneously in different windows. The window size may be larger if a visual signal is generated on a nearby further electronic device and smaller if it is generated on a remote further electronic device

The control unit may be able to use the receiver to receive multiple human non-perceptual signals comprising representations of acoustic signals.

The control unit may be able to use the receiver to receive multiple human non-perceptual signals comprising representations of visual signals. The control unit may also be able to use the receiver to receive multiple human non-perceptual signals comprising representations of both acoustic and visual signals, including those signals produced by computer games.

The control unit may be able to use the receiver to receive a human non-perceptual signal comprising an identifier identifying a further human perceptual signal and may be able to instruct a display to display the identifier. The identifier may comprise a title and/or an artist (e.g. singer or director) of the content.

The control unit may be able to use a storage means to store at least one of: an identifier identifying a further human perceptual signal and at least a part of the representation of the further human perceptual signal. When the user hears or sees an interesting content item, he or she may be able to store an identifier enabling him or her to find the content item at a later time. The user may also be able to store at least part of the representation of the further human perceptual signal in order to listen to the content item at a later time.

The receiver may be able to receive a human non-perceptual signal comprising a geographical position of a further electronic device transmitting a human non-perceptual signal comprising a representation of a further human perceptual signal. If the user wants to focus on a content item by walking towards the electronic device transmitting the content item, the geographical position of the transmitting electronic device makes finding the electronic device easier. The control unit may be able to use a current position of the receiving electronic device and the geographical position of the transmitting electronic device to calculate a direction towards the transmitting electronic device. The control unit may be able to display the direction on the display. The current position of the receiving device may for example be provided by a GPS receiver, possibly comprised in the receiving electronic device. Additionally, the control unit may be able to use the geographical position of a transmitting electronic device to show a location where interesting content has been found on a map using the display.

The control unit may be able to use the receiver to receive a human non-perceptual signal comprising an identifier identifying a further human perceptual signal. The electronic device may further comprise an input means for enabling a user to request additional information. The electronic device may further comprise a transmitter able to transmit a human non-perceptual signal. The control unit may be able to instruct the transmitter to transmit a human non-perceptual signal comprising a request for information and the identifier. The control unit may be able to use the receiver to receive a human non-perceptual signal comprising additional information. The extra information may comprise a list of other content items that the user of the electronic device transmitting the further human perceptual signal has listened to and/or watched and/or will listen to and/or watch. The extra information may also enable the user to buy a better representation of the human non-perceptual signal.

These and other aspects of the electronic devices, the methods, and the system of the invention will be further elucidated and described with reference to the drawing, in which:

Fig. 1 is a front view of a favorable embodiment of the electronic devices of the invention;

Fig. 2 is a block diagram of the embodiment of Fig.1;

Fig. 3 is a flow diagram of an embodiment of the methods of the invention;

Fig. 4 is a block diagram of an embodiment of the system of the invention;  
Corresponding elements within the drawings are identified by the same  
reference numeral.

5

Consumer electronic device 1, see Fig.1 and Fig.2, is a favorable embodiment  
of both the consumer electronic device for making content available and the electronic device  
for accessing new content. The consumer electronic device 1 unifies the components and  
functionality of both electronic devices. Alternatively, the consumer electronic device for  
10 making content available could be a different device than the electronic device for accessing  
new content. The consumer electronic device 1 comprises a display 3, a speaker 5, and a  
headphone 7 able to generate a human perceptual signal. The consumer electronic device 1  
also comprises a transmitter 21 able to transmit a human non-perceptual signal and a control  
unit 23 able to control the display 3, the speaker 5, and the headphone 7. The control unit 23  
15 is further able to create a representation of the human perceptual signal and to instruct the  
transmitter 21 to broadcast a human non-perceptual signal comprising the representation. The  
consumer electronic device 1 may for example be a car radio, a portable audio and/or video  
player, a mobile phone, or a handheld game console. The control unit 23 may be a  
microprocessor. The display 3 may for example be a LCD or LED display. A human non-  
20 perceptual signal may for example be an electromagnetic signal. A human perceptual signal  
may for example be an acoustic or a visual signal.

The control unit 23 may be able to instruct the transmitter 21 to transmit a  
human non-perceptual signal comprising an identifier identifying the human perceptual  
signal.

25

The consumer electronic device 1 further comprises a receiver 25 able to  
receive a further human non-perceptual signal. The control unit 23 may be able to use the  
receiver 25 to detect a free time-slot in a transmission medium, and the control unit 23 may  
be able to instruct the transmitter 21 to transmit the human non-perceptual signal 53 in the  
free time-slot. The transmitter 21 and the receiver 25 will most likely respectively transmit  
30 and receive wireless signals and may for example use Bluetooth, IEEE 802.11, or ZigBee  
technology. The transmission medium may for example be a part of the 2.4 GHz band in the  
microwave spectrum. Alternatively, the transmission medium could be a copper or fiber-  
optic cable.



The control unit 23 may be able to use the receiver 25 to receive a control signal, and the control unit 23 may be able to schedule own transmissions in accordance with the control signal.

5 The control unit 23 may be able to use the receiver 25 to detect a level of occupation of a transmission medium, and the control unit 23 may be able to instruct the transmitter 21 to adapt its transmission power in dependency of the level of occupation.

The control unit 23 may be able to instruct the transmitter 21 to transmit a human non-perceptual signal comprising transmission power of the transmitter 21.

10 The control unit may be able to use the receiver 25 to receive multiple human non-perceptual signals comprising representations of multiple further human perceptual signals and able to instruct the display 3, the speaker 5, and/or the headphone 7 to generate the human perceptual signal from the representations

15 The consumer electronic device 1 further comprises a cursor pad 9 for enabling a user to select at least one of the representations and the control unit is able to instruct the output means to generate the human perceptual signal from the at least one of the representations. Alternatively and/or additionally, other types of input means may be comprised in the electronic device 1, for example a touch-screen or a touch-pad. Another input means could be used to select the at least one of the representations.

20 The consumer electronic device 1 further comprises a communication means 29 for establishing communication between users and the control unit 23 is able to use the communication means 29 to establish communication between a user of the consumer electronic device 1 and a user of a similar consumer electronic device 1 having transmitted a human non-perceptual signal comprising the at least one representation. The communication means 29 may for example comprise components used in a cell phone. Communication  
25 means 29 may be part of at least one of the other components in the consumer electronic device 1. Communications means 29 could for example be realized by using transmitter 21, receiver 25, control unit 23 and/or a microphone 13.

30 The control unit 23 is able to instruct the display 3, the speaker 5, and/or the headphone 7 to make a further human perceptual signal more noticeable in the human perceptual signal if it is generated on a nearby further electronic device and less noticeable if it is generated on a remote further electronic device.

The control unit 23 is able to use the receiver 25 to receive multiple human non-perceptual signals comprising representations of acoustic signals.

The control unit 23 is able to use the receiver 25 to receive multiple human non-perceptual signals comprising representations of visual signals.

The control unit 23 is able to use the receiver 25 to receive a human non-perceptual signal comprising an identifier identifying a further human perceptual signal and  
5 to instruct the display 3 to display the identifier.

The control unit 23 is able to use a storage means 27 to store at least one of: an identifier identifying a further human perceptual signal and at least a part of the representation of the further human perceptual signal. The storage means 27 may be  
10 comprised in the electronic device 1 as shown in Fig. 1 or may be comprised in an external device. The storage means 27 may for example be an optical disc, flash memory, magnetic memory, or a magnetic disc.

The receiver 25 is able to receive a human non-perceptual signal comprising a geographical position of a further electronic device transmitting a human non-perceptual  
15 signal comprising a representation of a further human perceptual signal. The geographical position may comprise longitude and latitude.

The control unit 23 is able to use the receiver 25 to receive a human non-perceptual signal comprising an identifier identifying a further human perceptual signal. The consumer electronic device 1 further comprises a button 11 for enabling a user to request  
20 additional information and a transmitter 21 able to transmit a human non-perceptual signal. The control unit 23 is able to instruct the transmitter 21 to transmit a human non-perceptual signal comprising a request for information and the identifier and to use the receiver to receive a human non-perceptual signal comprising additional information. Alternatively,  
25 another input means could be used for enabling a user to request additional information instead of button 11. Another input means could for example be the cursor pad 9, a touch-screen, or a touch-pad.

The method of making content available, see Fig.3, comprises step 41 creating a representation 51 of a human perceptual signal 49 generated by a consumer electronic device and step 43 broadcasting the representation 51. The representation 51 may be  
30 broadcasted as human non-perceptual signal 53.

The method of accessing new content comprises step 45 receiving representations 57, 58, and optionally 51 of multiple further human perceptual signals and step 47 generating a human perceptual 59 signal from the received representations. The

representations 51, 57, and 58 may be received comprised in respectively human non-perceptual signals 53, 55, and 56.

The system for sharing human perceptual signals, see Fig.4, comprises a component 61 able to create and broadcast a first representation of a first human perceptual signal. The system also comprises a component 63 able to create and broadcast a second representation of a second human perceptual signal. The system further comprises a component 65 able to receive the first and the second representation and able to generate a third human perceptual signal from the first and the second representation. Each of the components may be a consumer electronic device 1 of Fig.1 and Fig.2.

While the invention has been described in connection with favorable embodiments, it will be understood that modifications thereof within the principles outlined above will be evident to those skilled in the art, and thus the invention is not limited to the favorable embodiments but is intended to encompass such modifications. The invention resides in each and every novel characteristic feature and each and every combination of characteristic features. Reference numerals in the claims do not limit their protective scope. Use of the verb "to comprise" and its conjugations does not exclude the presence of elements other than those stated in the claims. Use of the article "a" or "an" preceding an element does not exclude the presence of a plurality of such elements.

'Means', as will be apparent to a person skilled in the art, are meant to include any hardware (such as separate or integrated circuits or electronic elements) or software (such as programs or parts of programs) which perform in operation or are designed to perform a specified function, be it solely or in conjunction with other functions, be it in isolation or in co-operation with other elements. The invention can be implemented by means of hardware comprising several distinct elements, and by means of a suitably programmed computer. In the apparatus claim enumerating several means, several of these means can be embodied by one and the same item of hardware. 'Computer program product' is to be understood to mean any software product stored on a computer-readable medium, such as a floppy disk, downloadable via a network, such as the Internet, or marketable in any other manner.

## CLAIMS:

1. A consumer electronic device (1) , comprising:
  - an output means (3,5,7) able to generate a human perceptual signal (49);
  - a transmitter (21) able to transmit a human non-perceptual signal (53); and
  - a control unit (23) able to control the output means (3,5,7), able to create a representation
- 5 (51) of the human perceptual signal (49), and able to instruct the transmitter (21) to broadcast a human non-perceptual signal (53) comprising the representation (51).
2. A consumer electronic device (1) as claimed in claim 1, characterized in that the output means (3,5,7) comprises at least one of a speaker (5) and a headphone (7).
- 10 3. A consumer electronic device (1) as claimed in claim 1, characterized in that the output means (3,5,7) comprises a display (3).
4. A consumer electronic device (1) as claimed in claim 1, characterized in that
- 15 the control unit (23) is able to instruct the transmitter (21) to transmit a human non-perceptual signal comprising an identifier identifying the human perceptual signal (49).
5. A consumer electronic device (1) as claimed in claim 1, characterized in that
- 20 further comprised is a receiver (25) able to receive a further human non-perceptual signal, the control unit (23) is able to use the receiver (25) to detect a free time-slot in a transmission medium, and the control unit (23) is able to instruct the transmitter (21) to transmit the human non-perceptual signal (53) in the free time-slot.
6. A consumer electronic device (1) as claimed in claim 1, characterized in that
- 25 further comprised is a receiver (25) able to receive a further human non-perceptual signal, the control unit (23) is able to use the receiver (25) to receive a control signal, and the control unit (23) is able to schedule own transmissions in accordance with the control signal.

7. A consumer electronic device (1) as claimed in claim 1, characterized in that further comprised is a receiver (25) able to receive a further human non-perceptual signal, the control unit (23) is able to use the receiver (25) to detect a level of occupation of a transmission medium, and the control unit (23) is able to instruct the transmitter (21) to adapt  
5 its transmission power in dependency of the level of occupation.

8. A consumer electronic device (1) as claimed in claim 1, characterized in that the control unit (23) is able to instruct the transmitter (21) to transmit a human non-perceptual signal comprising transmission power of the transmitter (21).

10

9. An electronic device (1), comprising:

- an output means (3,5,7) for generating a human perceptual signal (59);
- a receiver (25) able to receive a human non-perceptual signal (53,55,56); and
- a control unit (23) able to use the receiver (25) to receive multiple human non-perceptual  
15 signals (53,55,56) comprising representations (51,57,58) of multiple further human perceptual signals (49) and able to instruct the output means (3,5,7) to generate the human perceptual signal (59) from the representations (51,57,58).

10. An electronic device (1) as claimed in claim 9, characterized in that further  
20 comprised is an input means (9,11) for enabling a user to select at least one of the representations (51,57,58) and the control unit (23) is able to instruct the output means (3,5,7) to generate the human perceptual signal (59) from the at least one of the representations (51,57,58).

25 11. An electronic device (1) as claimed in claim 10, characterized in that further comprised is a communication means (29) for establishing communication between users and the control unit (23) is able to use the communication means (29) to establish communication between a user of the electronic device (1) and a user of a similar electronic device (1) having transmitted a human non-perceptual signal (53,55,56) comprising the at least one  
30 representation (51,57,58).

12. An electronic device (1) as claimed in claim 9, characterized that the control unit (23) is able to instruct the output means (3,5,7) to make a further human perceptual signal (49) more noticeable in the human perceptual signal (59) if it is generated on a nearby

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further electronic device (1) and less noticeable if it is generated on a remote further electronic device (1).

13. An electronic device (1) as claimed in claim 9, characterized in that the control unit (23) is able to use the receiver (25) to receive multiple human non-perceptual signals (53,55,56) comprising representations (51,57,58) of acoustic signals.

14. An electronic device (1) as claimed in claim 9, characterized in that the control unit (23) is able to use the receiver (25) to receive multiple human non-perceptual signals (53,55,56) comprising representations (51,57,58) of visual signals.

15. An electronic device (1) as claimed in claim 9, characterized in that the control unit (23) is able to use the receiver (25) to receive a human non-perceptual signal comprising an identifier identifying a further human perceptual signal (49) and able to instruct a display (3) to display the identifier.

16. An electronic device (1) as claimed in claim 9, characterized in that the control unit (23) is able to use a storage means (27) to store at least one of: an identifier identifying a further human perceptual signal and at least a part of the representation (51,57,58) of the further human perceptual signal (49).

17. An electronic device (1) as claimed in claim 9, characterized in that the receiver (25) is able to receive a human non-perceptual signal comprising a geographical position of a further electronic device (1) transmitting a human non-perceptual signal (53,55,56) comprising a representation of a further human perceptual signal (49).

18. An electronic device (1) as claimed in claim 9, characterized in that:

- the control unit (23) is able to use the receiver (25) to receive a human non-perceptual signal comprising an identifier identifying a further human perceptual signal (49);
- further comprised is an input means (9,11) for enabling a user to request additional information;
- further comprised is a transmitter (21) able to transmit a human non-perceptual signal;
- the control unit (23) is able to instruct the transmitter (21) to transmit a human non-perceptual signal comprising a request for information and the identifier; and

- the control unit (23) is able to use the receiver to receive a human non-perceptual signal comprising additional information.

- 5 19. A method of making content available, comprising the steps of:  
creating (41) a representation (51) of a human perceptual signal (49) generated by a  
consumer electronic device (1); and  
broadcasting (43) the representation (51).
- 10 20. A method of accessing new content, comprising the steps of:  
receiving (45) representations (51,57,58) of multiple further human perceptual signals (49);  
and  
generating (47) a human perceptual (59) signal from the representations (51,57,58).
- 15 21. A system for sharing human perceptual signals (49), comprising:  
a component (61) able to create and broadcast a first representation (51,57,58) of a first  
human perceptual signal (49);  
a component (63) able to create and broadcast a second representation (51,57,58) of a second  
human perceptual signal (49); and  
20 a component (65) able to receive the first and the second representation (51,57,58) and able  
to generate a third human perceptual signal (59) from the first and the second representation  
(51,57,58).
- 25 22. A computer program product for accessing new content, comprising functions  
for:  
receiving representations (51,57,58) of multiple further human perceptual signals (49); and  
generating a human perceptual signal (59) from the representations (51,57,58).

**ABSTRACT:**

The consumer electronics device (1) for making content available consists of an output means (3,5,7), a control unit (23), and a transmitter (21). The control unit (23) is able to create a representation of a human perceptual signal being generated by the output means (3,5,7) and instruct the transmitter (21) to broadcast the representation. The electronics

5 device (1) for accessing new content consists of an output means (3,5,7), a receiver (25), and a control unit (23). The control unit (23) uses the receiver (25) to receive representations of multiple further human perceptual signals and instructs the output means (3,5,7) to generate a human perceptual signal from these multiple representations. The method of making content

10 available consists of creating (41) a representation (51) of a human perceptual signal (49) generated by a consumer electronic device and broadcasting (43) the representation (51). The method of accessing new content consists of receiving (45) representations (51,57,58) of multiple further human perceptual signals (49) and generating (47) a human perceptual signal (59) from these multiple representations (51,57,58). The system consists of at least two

15 components (61,63) executing the method of making content available and at least one component (65) executing the method of accessing new content. The computer program product enables a programmable device to perform the method of accessing new content.

Fig. 1



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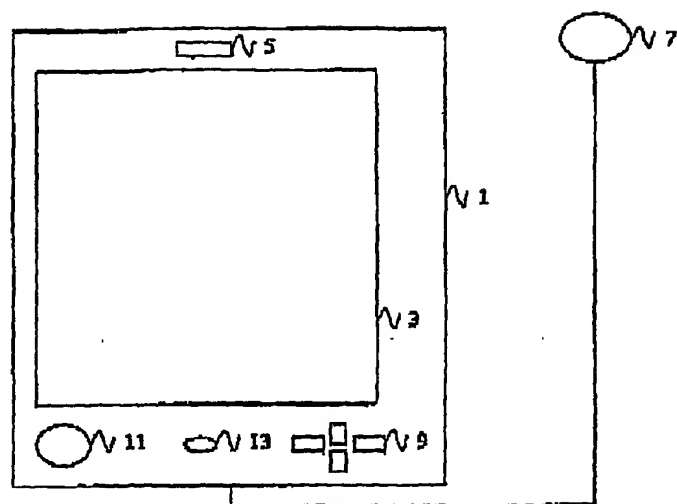


Figure 1

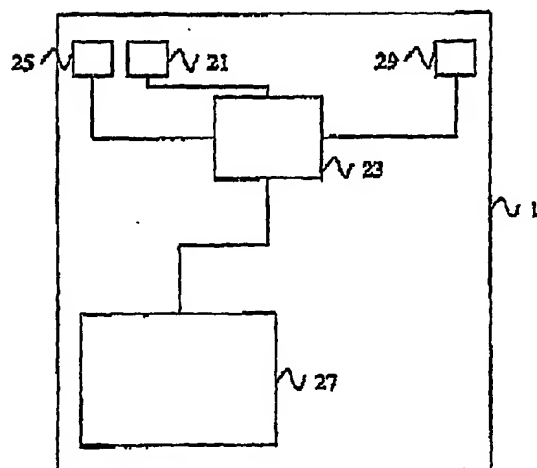


Figure 2

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2

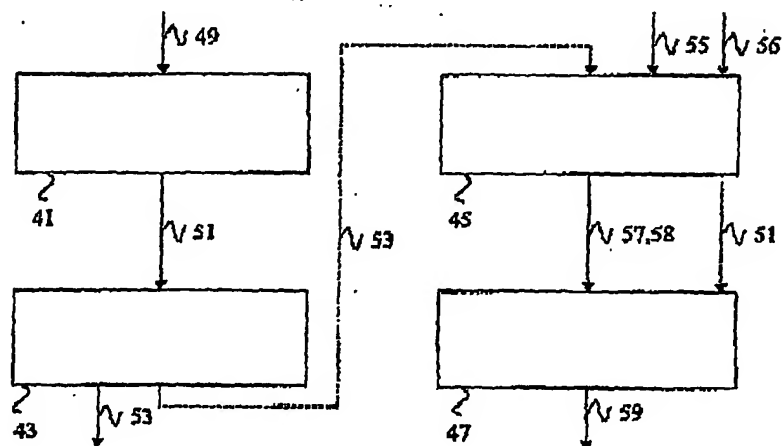


Figure 3

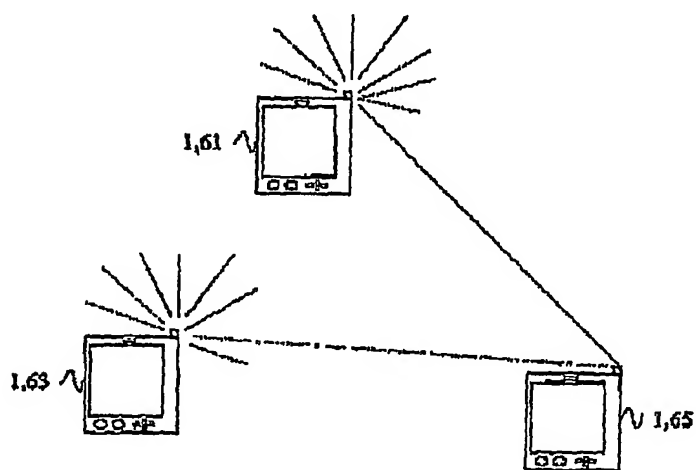


Figure 4